

Title (en)  
Evaluation of fluid loss for subsurface fracturing.

Title (de)  
Verfahren zur Auswertung der Flüssigkeitsverluste für eine unterirdische Spaltenbildung.

Title (fr)  
Procédé d'évaluation des pertes de fluide pour une fracturation hydraulique.

Publication  
**EP 0482911 A2 19920429 (EN)**

Application  
**EP 91309799 A 19911023**

Priority  
US 60467090 A 19901026

Abstract (en)  
The evaluation of fluid loss for subsurface fracturing is made through use of two test fracturing or "mini-frac" operations to determine formation parameters. A first mini-frac operation is performed to determine the fluid efficiency of the formation, and a second mini-frac operation is performed to determine a late time fluid leak-off coefficient. The data thus obtained are functionally related to simultaneously solve integral expressions to determine the total volume of fluid lost during pumping and the total volume of fluid lost during shut-in in response to an assumed spurt time. The fluid loss values are then functionally related to the established fluid efficiency to estimate an early time fluid leak-off coefficient. The early time fluid leak-off coefficient thus determined is then applied in a balance equation to verify the accuracy of such value in response to the assumed spurt time. The assumed spurt time may then be varied and the above fluid loss values iteratively reevaluated until the balance equation is satisfied within an acceptable range of tolerance. <IMAGE>

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IPC 8 full level  
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CN105134196A; CN113969773A

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